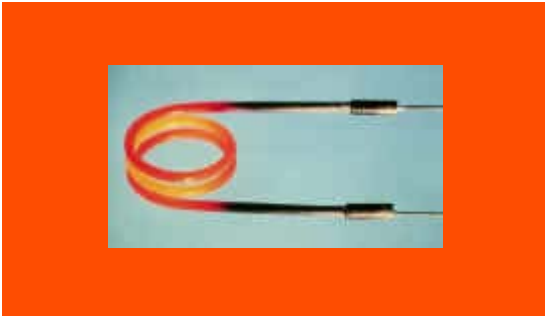




THERMOCOAX single core heaters



Without cold
With cold ex
With true cold
With swagin
Self-regulat
With coiled c

Without cold ends : 1 Nc and 1 Hc types

These types are suitable for all kind of applications when:

- power density is low, generally $< 100 \text{ W/m}$.
- the ends do not go through an insulated wall.

Maximum working
temperature :
600°C.

O.D. (1/10th mm)	1 Nc Ac or 1 Nc I	1 Hc Ac or 1 Hc I
	Line resistance in ohms/m*	
05	50	-
10	12.5	28
15	5.5	12.4
20	3.1	7.0
25	2.0	4.5
30	1.38	3.1
40	0.77	1.75

Core:

Insulant:

Sheath:

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With cold ends : ZEZ and ZUZ types

These types are the more commonly used.
With the Inconel sheath and with fixed
lengths, they are available standard under
the names SEI and SEA.

They are suitable for all types of applications with either low or high power and they are chosen according to the line resistance.

Maximum working
temperature :

hot part :

1000°C

cold ends :

600°C.

Sheath material	O.D. (1/10th mm)	Minimum heating length in cm	ZEZ		ZUZ	
			Line resistance in ohms/m at 20°C*			
			Hot part	Cold part	Hot part	Cold part
Stainless steel (Ac) or Inconel® (I)	10	100	12.5	0.6	-	-
	15	50	5.5	0.3	12.4	0.3
	20	25	3.1	0.15	7.0	0.15
	25	25	2.0	0.1	4.5	0.1
	30	25	1.4	0.07	3.1	0.07
	40	25	0.78	0.04	1.8	0.04

Insulant

Sheath

without any
joints, flush contour around
the hot/cold transitions.

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With true cold ends : TET and TUT types

They are recommended when the specific power is very high and the cold ends have to be long.

The materials and characteristics are identical to those of the ZEZ or ZUZ types except for the electrical resistance of the core at the cold ends:

Maximum working temperatures :

hot part :
1000°C

cold part :
300°C.

Sheath material	O.D. (1/10th mm)	Minimum heating length in cm*	TET		TUT	
			Line resistance in ohms/m at 20°C **			
			Hot part	Cold part	Hot part	Cold part
Stainless steel (Ac) or Inconel® (I)	15	100	5.5	0.07	12.4	0.07
	20	100	3.1	0.04	7.0	0.04
	25	100	2.0	0.03	4.5	0.03
	30	100	1.4	0.02	3.1	0.02

Core

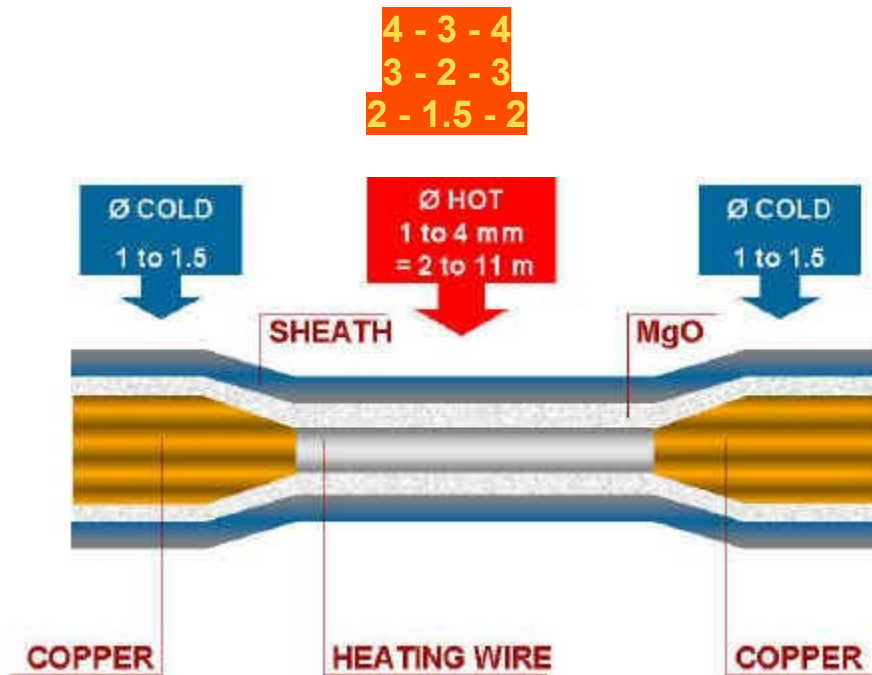
Insulant
Sheath

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With swaging

To increase the dissipated power without excessively heating up the connectors, a solution with swaging could be the answer :

median swaging



swaged tip

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[Back to complete range](#)

Standard range

Twin core

Coiled core

Self regulating

Connection

Fixing method